

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 25, 2019
Hours:	19:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	1020MW THP	Unit- I	100.00	400kV THP - Siliguri Fdr- I	0.00		Unit-III at standby. Unit-II, IV & V under shutdown. 400kV THP_SILI-I at standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	44.27	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	41.39	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	111.13	+	
		Unit- V	0.00	400kV Malbase - Siliguri	37.84	+	
		Unit- VI	100.00	-	-	-	
		Total	200.00	Error at Station/Auxiliary Consumption/Losses	3.21		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	83.00	+	Unit-II,II & IV under breakdown.
		Unit-II	170.50	400kV MHP - Jigmeling Fdr - II	84.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	170.50	Error at Station/Auxiliary Consumption/Losses	3.50		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	16.40	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	16.54	+	
		Unit- III	83.70	220kV CHP - Malbase Fdr- III	85.80	+	
		Unit- IV	83.91	220kV CHP - Sementokha Fdr- IV	27.79	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.14	-	
		-	-	66kV CHP - Chumdo Fdr.	13.19	+	
		-	-	66kV CHP - Gedu Fdr.	5.47	+	
		-	-	3x3MVA, 66/11kV TFR	1.69	+	
		Total	167.61	Error at Station/Auxiliary Consumption/Losses	0.73		
		3	24MW BHP (U/S)	Unit- I	5.15	220kV BHP - Sementokha Fdr.	
Unit- II	5.15			66kV BHP - Lobeysa Fdr.	15.51	+	
Total	10.30			220kV BHP - Tsirang Fdr.	-10.02	-	
40MW BHP (L/S)	Unit- I		10.71	5MVA, 66/11kV TFR	0.78	+	
	Unit- II		10.25	30MVA ICT, 220/66kV			
Total	20.96	Error at Station/Auxiliary Consumption/Losses	0.55				
4	126MW DHPC	Unit-I	32.33	220kV DHPC - Tsirang Fdr.	32.15	+	Unit II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	32.33	Error at Station/Auxiliary Consumption/Losses	0.18		
		5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	
Unit-II	0.00			132kV KHP - Kilikhar Fdr- II	6.91	+	
Unit- III	16.27			5MVA, 132/11kV TFR	0.40		
Unit- IV	16.21			132kV Gelephu - Salakati Fdr.	-12.33	-	
-	-			132kV Motanga - Rangia Fdr.	-2.33	+	
-	-			220kV Tsirang - Jigmeling	18.98	+	
Total	32.48			Error at Station/Auxiliary Consumption/Losses	0.92		

Note: Load summary on November 25, 2019 at 19:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load [Generation - Export (MW)]	Total Load [Feeder Summation (MW)]	Total Export/Import	Load Balance
1	Western Grid	431.20	293.92	290.35	118.30	3.57
2	Eastern Grid	202.98	69.62	65.20	152.34	4.42
	Total	634.18	363.54	355.55	270.64	7.99

Note: Load Summary on November 25, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	291.16	291.16	281.60
2	Eastern Grid	50.62	50.62	62.24
	National	341.78	341.78	343.84

NOTES:

- The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
 - Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
 - The clocks of all the locations are not synchronized.
- This report is generated to give an idea of the generation & load flow for the system at a particular instant.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 26, 2019
Hours:	09:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	1020MW THP	Unit- I	100.07	400kV THP - Siliguri Fdr- I	0.00		Unit-III at standby. Unit-II, IV & V under shutdown. 400kV THP_SILI-I at standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	44.27	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	41.39	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	111.13	+	
		Unit- V	0.00	400kV Malbase - Siliguri	37.84	+	
		Unit- VI	101.02	-	-	-	
		Total	201.09	Error at Station/Auxiliary Consumption/Losses	4.30		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	84.40	+	Unit-I,III & IV under breakdown
		Unit-II	171.00	400kV MHP - Jigmeling Fdr - II	80.70	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	171.00	Error at Station/Auxiliary Consumption/Losses	5.90		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	16.40	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	16.54	+	
		Unit- III	83.70	220kV CHP - Malbase Fdr- III	85.80	+	
		Unit- IV	83.91	220kV CHP - Sementokha Fdr- IV	27.79	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.14	-	
		-	-	66kV CHP - Chumdo Fdr.	13.19	+	
		-	-	66kV CHP - Gedu Fdr.	5.47	+	
		-	-	3x3MVA, 66/11kV TFR	1.69	+	
		Total	167.61	Error at Station/Auxiliary Consumption/Losses	0.73		
4	24MW BHP (U/S)	Unit- I	5.15	220kV BHP - Sementokha Fdr.	25.54	+	
		Unit- II	5.15	66kV BHP - Lobeysa Fdr.	15.51	+	
		Total	10.30	220kV BHP - Tsirang Fdr.	-10.02	-	
	40MW BHP (L/S)	Unit- I	10.71	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	10.25	30MVA ICT, 220/66kV			
Total	20.96	Error at Station/Auxiliary Consumption/Losses	-0.55				
5	126MW DHPC	Unit-I	32.23	220kV DHPC - Tsirang Fdr.	32.15	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	32.23	Error at Station/Auxiliary Consumption/Losses	0.08		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	26.72	+	Unit-II under shutdown. Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.18	+	
		Unit- III	16.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.00	132kV Gelephu - Salakati Fdr.	-11.61	-	
		-	-	132kV Motanga - Rangia Fdr.	-4.53	-	
		-	-	220kV Tsirang - Jigmeling	9.06	+	
		Total	32.00	Error at Station/Auxiliary Consumption/Losses	0.80		

Note: Load summary on November 26, 2019 at 09:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load [Generation - Export (MW)]	Total Load [Feeder Summation (MW)]	Total Export/Import	Load Balance
1	Western Grid	432.19	304.83	300.27	118.30	4.56
2	Eastern Grid	203.00	63.10	56.40	148.96	6.70
	Total	635.19	367.93	356.67	267.26	11.26

Note: Load Summary on November 26, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	250.60	287.12	293.93
2	Eastern Grid	32.97	52.03	62.30
	National	283.57	339.15	356.23

NOTES:

- The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
 - Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
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